Code **210642**

AXMINSTER
INDUSTRIAL SERIES

UB-2200VECK

Cyclone Extractor

AXMINSTER • 3 • THREE YEAR GUARANTEE

AT&M: 28/5/2015

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Declaration of Conformity

Copied from CE Certificate

The undersigned, authorised by

Manufactured by Chang Tjer Machinery Co., Ltd.
No. 195-12, Chung Cheng RD., Ta Ya Dist., Taichung,
42850, Taiwan, R.O.C

Model Number: UB-2200ECK (Dust Collector)

manufactured by Chang Tjer Machinery Co., Ltd. is in compliance with the standards determined in the following Machinery Directive. 2006/42/EC

EN 60335-1:2002 + A11: 2004 +
A1: 2004 + A12: 2006 + A13: 2008

Warning

The symbols below advise that you follow the correct safety procedures when using this machine.

Fully read manual and safety instructions before use

Ear protection should be worn

Eye protection should be worn

Dust mask should be worn

Two man assembly

Keep hands away from moving parts and cutting area

What's Included

Quantity	Item	Model Number
		UB-2200ECK
1 No	Cyclone Extractor	
1 No	Instruction Manual	

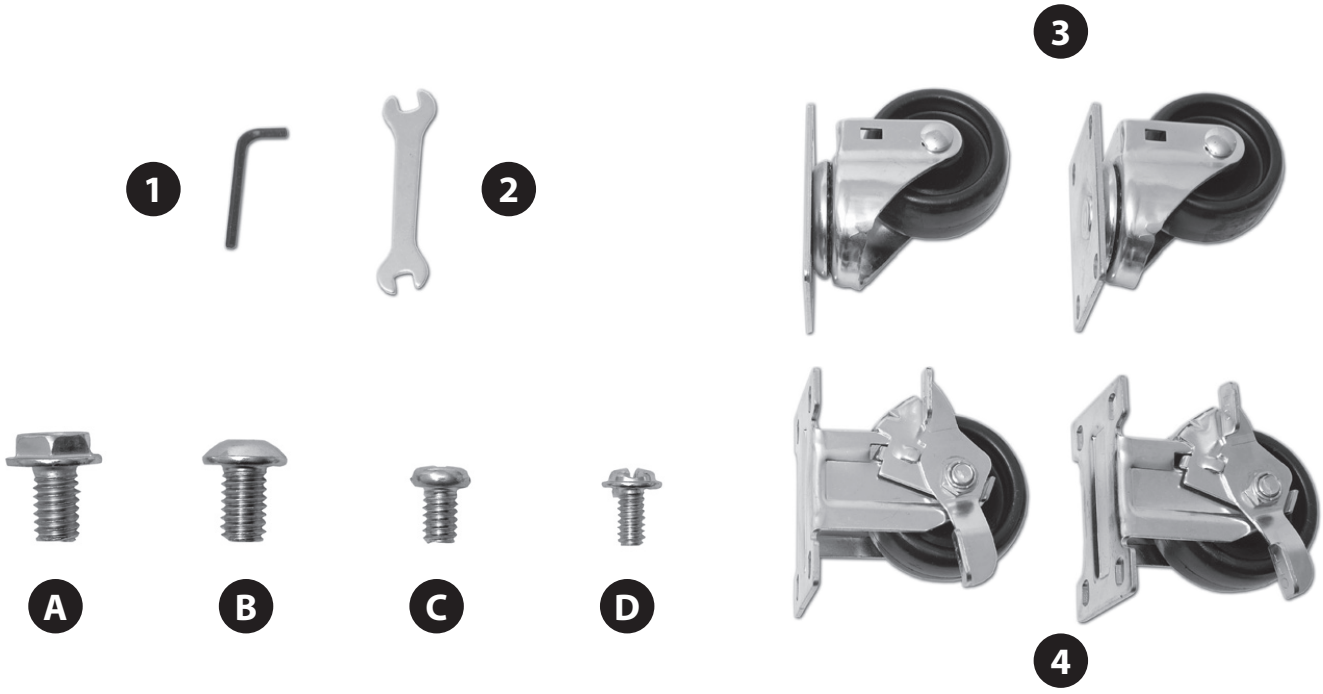
Box 1

Quantity	Item	Part
1 No	5mm Hex Key	1
1 No	10-12mm Spanner	2
2 No	Castor Wheels	3
2 No	Fixed Castor Wheels	4
2 No	Large Steel Clips	5
2 No	Small Hose Clips	6
1 No	Dust Bag	7
1 No	Small Drum Sealing Tape	8
1 No	Extractor Handle	9
1 No	Flexible Connector	10
1 No	Filter Sealing Tape	11
1 No	Dust Bag Securing Clip	12
1 No	Dust Bag	13
4 No	Bin Castor Wheels	14
2 No	Bin Lever Clamps with four Hex Head Coach Bolts	15
1 No	Manometer and Hose	16

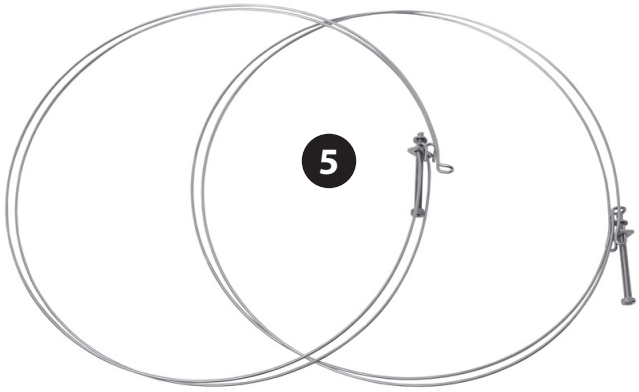
Box 2

Quantity	Item	Part
1 No	Bin Cover	17
1 No	Large Flexible Hose	18
1 No	Dust Extraction Adaptor	19
1 No	Rear Filter Cover	20
1 No	Cyclone Extractor Base	21
1 No	Bin	22
1 No	Upper Inner Panel	23
2 No	Side Panels	24
1 No	Lower Inner Panel	25
1 No	Motor Extraction Assembly	26
Bag Containing		
16 No	Large Bolts	A
24 No	Hex Head Coach Screws	B
2 No	Phillips Head Button Screws	C
7 No	Small Phillips Screw	D

Please read the Instruction Manual prior to using your new machine. As well as the operating procedures for your new machine, there are numerous hints and tips to help you to use the machine safely and to maintain its efficiency and prolong its life. There is also a detailed description of the parts of your Cyclone Extractor, which will enable you to become familiar with terminology we will use in this manual. Keep this Instruction Manual readily accessible for any others who may also be required to use the machine.



What's Included



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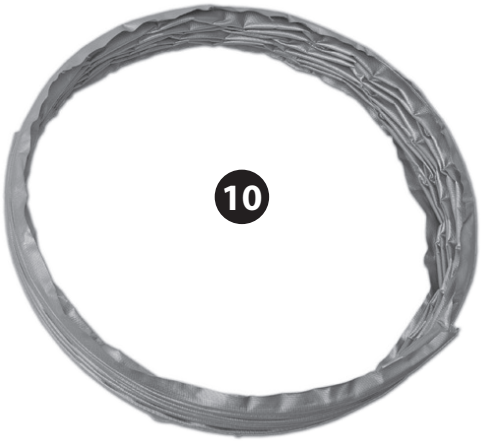

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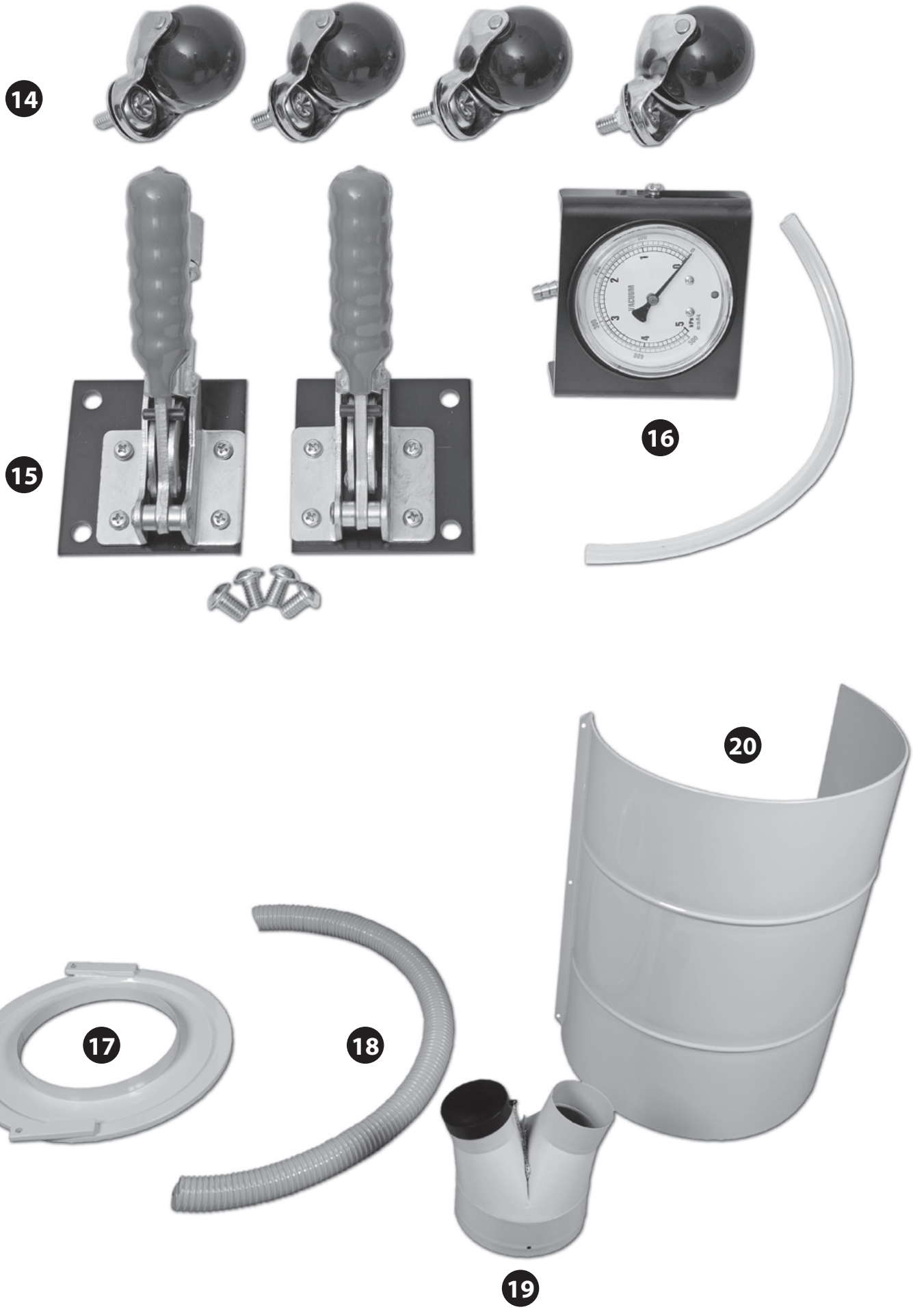
12

THIS BAG IS NOT A TOY
WARNING-TO AVOID DANGER OF SUFFOCATION, KEEP THIS BAG AWAY FROM BABIES AND CHILDREN. DO NOT USE IN CRIBS, BED CARRIAGES OR PLAY PENS. THIS BAG IS NOT A TOY. KNOT BEFORE THROWING AWAY.
CE SAC N'EST PAS UN JOUET
ATTENTION-AFIN D'EVITER LE DANGER DE SUFFOCATION, ELOIGNER CE SAC DES BEBES ET DES ENFANTS. NE PAS UTILISER DANS LES BERCEAUX DE LITS, DES POUSSETTES OU DANS DES PARCS. CE SAC N'EST PAS UN

13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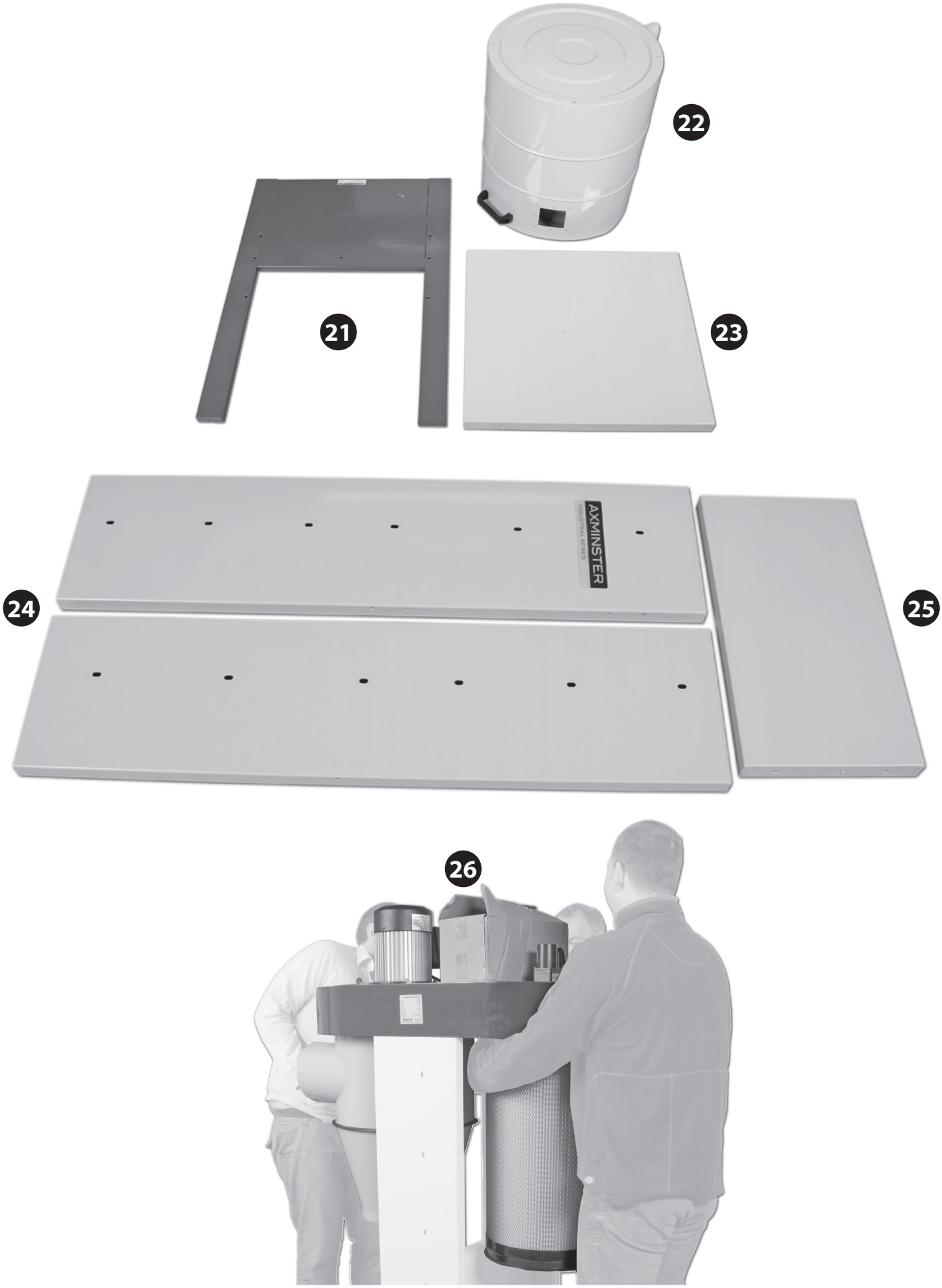
What's Included



Good Working Practices/Safety

The following suggestions will enable you to observe good working practices, keep yourself and fellow workers safe and maintain your tools and equipment in good working order.

WARNING!! KEEP TOOLS AND EQUIPMENT OUT OF THE REACH OF YOUNG CHILDREN

Mains Powered Tools and Machines

Primary Precautions

These machines are supplied with a moulded 16 Amp plug and 3 core power cable. Before using the machine, inspect the cable and the plug to make sure that neither are damaged. If any damage is visible, have the damaged item inspected/repaired by a suitably qualified person. If it is necessary to replace the plug, it is preferable to use an 'unbreakable' type that will most resist damage. Only use a 16 Amp plug, and make sure the cable clamp is tightened securely. Fuse as required. If extension leads are to be used, carry out the same safety checks on them, and ensure that they are correctly rated to safely supply the current that is required for your machine. Remember, most machines or tools have handles or holding positions, the power cable is not one of them.

Workplace/Environment

The machine is not designed for use outside. Keep the machine clean; it will enable you to more easily see any damage that may have occurred. Clean the machine with a damp soapy cloth if needs be, do not use any solvents or cleaners, as these may cause damage to any plastic parts or to the electrical components.
It is good practice to leave the machine unplugged until work is about to commence, also make sure to unplug the machine when it is not in use, or unattended. To avoid inadvertent 'start up', if your machine is not fitted with a NVR system, ensure the switch is always returned to the OFF position. Once you are ready to commence work, remove any tools, objects or items that could inadvertently get 'sucked up' by the machine and place safely out of the way. Re-connect the machine, ensuring the power cable is not 'snagged' or routed where it could be tripped over as you move about the workshop; it is not too close to an unguarded heat source, or is laid over or around a sharp edge. If the work you are carrying out is liable to generate flying grit, dust or chips, wear the appropriate safety clothing, goggles, gloves, masks etc. If the work operation appears to be excessively noisy, wear ear-defenders. If you wear your hair in a long style, wearing a cap, safety helmet, hairnet, even a sweatband, will minimise the possibility of your hair being caught up in the rotating parts of the machine, likewise, consideration should be given to the removal of rings and wristwatches if these are liable to be a 'snag' hazard. Consideration should also be given to non-slip footwear, etc.

KEEP THE WORK AREA AS UNCLUTTERED AS IS PRACTICAL, THIS INCLUDES PERSONNEL AS WELL AS MATERIAL.
UNDER NO CIRCUMSTANCES SHOULD CHILDREN BE ALLOWED IN WORK AREAS.

Do not use this machine if you are tired, your attention is wandering or you are being subjected to distraction.

Do not use this machine within the designated safety areas of flammable liquid stores or in areas where there may be volatile gases. There are very expensive, very specialised machines for working in these areas. Above all, **OBSERVE....** make sure you know what is happening around you, and **USE YOUR COMMON SENSE.**

Specific Safety for Dust Extractors

Do not use this machine as a vacuum cleaner, try to keep the waste medium to wood by products.

Do not uplift workshop floor debris (stones, nails, screws, paper etc., etc). Be aware that wood dust is an explosive medium.

Do not allow any 'naked light' source to occur anywhere near the machine. This includes cigarettes, matches, etc, and do not place the machine near any unprotected light bulbs, that could possibly get broken.

The suction force is generated by a high speed fan unit. This has the potential to amputate fingers, grab loose clothing (ties etc.,) and 'bat' large chips etc, at high speeds. Keep all guarding in place, and if access to the fan becomes necessary (due to blockage etc.,) disconnect the machine from the mains supply and ensure the fan has come to a complete stop before putting your hands anywhere near to it.

If you are not using 'clear' extraction hose, periodically remove the hose to check that the inlet to the machine is not getting restricted. (The safety guard grill of the inlet duct can be particularly irksome in this way, as long strand shavings etc., can wrap around the grill fret.)

Continues on next page...

Specific Safety for Dust Extractors

Keep the particle filter clean. The machine relies on its ability to 'blow' air through the filter, to generate good suction. If the particle filter starts to clog, this reduces the air flow and hence the machine becomes less efficient.

The particle filter can be cleaned, by removing the rear filter cover **(20)** and using a vacuum cleaner, clean the inside of the filter as illustrated on page 17.

Be aware that in dry air periods or areas, the movement of the air through the machine can generate static electric fields. These are not normally a problem as the machine is bonded together via its construction and the whole is earthed back through the electrical supply; problems can occur with isolated items, such as stands or hosing that are insulated from the ground (standing on rubber feet?, suspended in the air etc).

If possible, try to connect everything together electrically, to eliminate static shocks.

(Use the integral metal coil in flexible plastic hosing to connect units together).

Try to route the power cable and the hosing away from busy walkways.

Do not allow the inlet to become 'dead ended', or block or restrict the outlet, this puts undue strain on the motor and can lead to overheating.

NOTE: DO NOT FIT PLASTIC WASTE BAGS TO THIS MACHINE!

Specification

Code	210642
Model	UB-2200VECK
Rating	Industrial
Power	1.5kW (230V 1ph)
Air Flow	2,700m³/hr
Noise Level	74dB(A) @ 3m
Filter Area	3.7m²
Particle Size	1 micron
Hose Diameter	100mm x 2 & 200mm x1
Overall L x W x H	1,000 x 670 x 1,700mm
Weight	131kg

Assembly Instructions

Please read through the section entitled Parts identification and Description, this will enable you to more readily identify those parts of the cyclone extractor.

Please note: some of this assembly procedure is best accomplished by two persons. Although the tasks are not impossible, some of the items are heavy and awkward, and a mishandling error could cause injury. Please think about what you are doing, your capabilities and your personal safety. We have added the 'two person symbol' to any operation that we recommend should be a two person task.

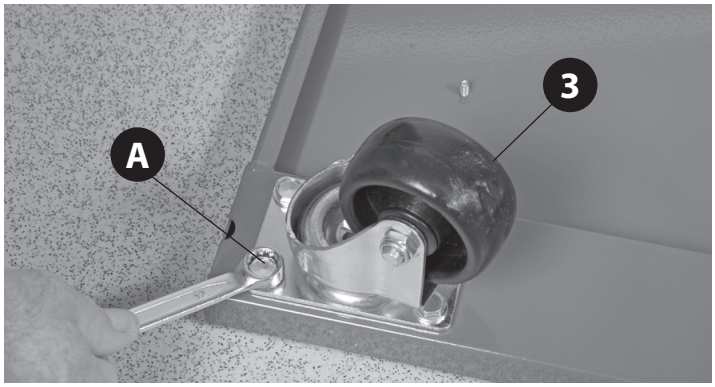
Unpack all the boxes and check all the components listed in the "What's Included" section. If any parts or components are missing, please contact our Customer Services Department using the procedures and telephone numbers listed in our catalogue.

Please note: on occasions the packing list is not strictly adhered to. Please check all the boxes, packets etc. to make sure that all the parts have been accounted for.

PLEASE RECYCLE ANY UNWANTED PACKAGING RESPONSIBLY!

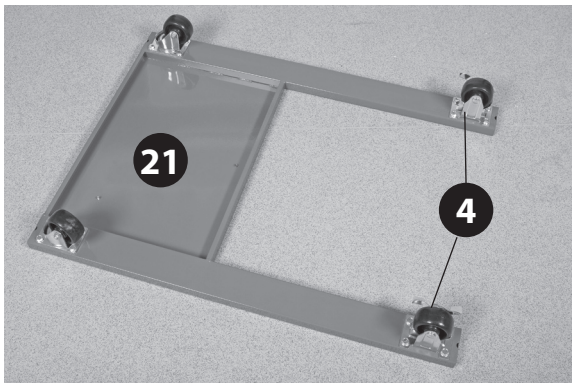
Having unpacked the boxes, put all components where they are readily to hand. Locate the four castor wheels **(3,4)**, the cyclone extractor base **(21)** and the 16 threaded bolts **(A)**. Lineup the holes in the non-fixed castor wheels **(3)** with the threaded holes to the rear of the extractor base **(21)** and secure using the threaded bolts **(A)**. Repeat the procedure for the fixed castor wheel **(4)** but to the opposite end of the base and tighten using a spanner. (See figures 1-2)

Figure 01



Fix the four castor wheels (**3** and **4**) to the cyclone base **(21)** using the threaded bolts **(A).**

Figure 02



The four castors fixed to the base

Turn the base **(21)** over, locate one of the side panel **(24)**, three Hex head coach screws **(B)**, and the 5mm Hex key **(1)**. Lineup the three pre-drilled holes in the side panel with the threaded holes in the base **(21)** and secure using the three coach screws **(B)**. Repeat for opposite side and light tighten using the Hex key. See figures 3-4-5)

Figure 03

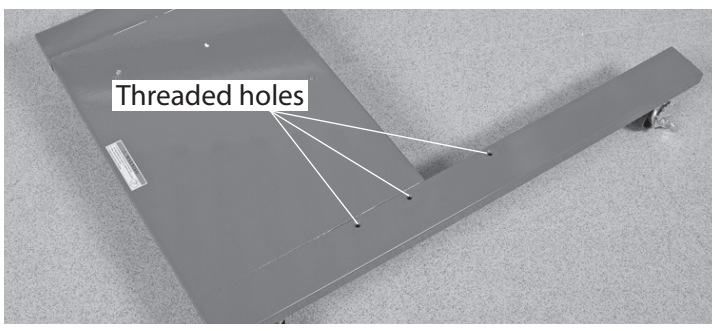


Figure 04

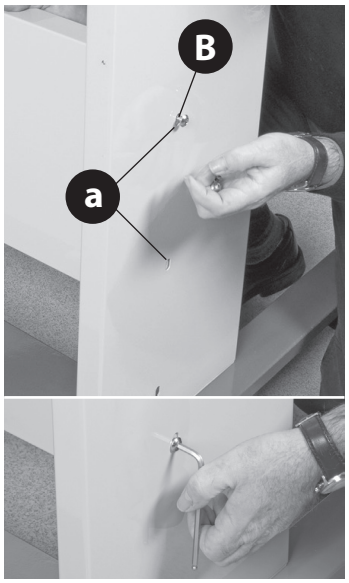
Figure 05

Line-up the three pre-drilled holes in the side panel with the threaded holes in the base **(21)** and secure using the three coach screws **(B).**

Position the lower inner panel **(25)** between the two side panels **(24)**, raise the inner panel, lineup the holes with the slotted holes **(a)** in the side panels and secure using four Hex head screws **(B)** and tighten with a Hex key. (See figures 6-7)

Figure 06

Figure 07



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Motor Extraction Assembly

WARNING! THE MOTOR EXTRACTION ASSEMBLY IS VERY HEAVY IT IS ADVISABLE TO SEEK HELP!

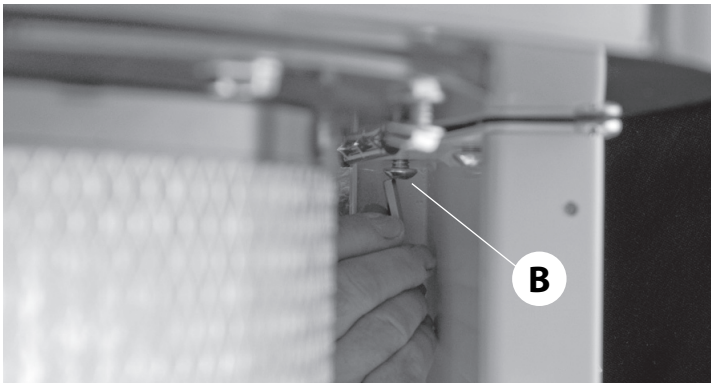
TWO PERSON ASSEMBLY!

Locate the motor extraction assembly **(26)**, lift the assembly and place it carefully astride the side panels **(24)**. Carefully manoeuvre the extraction assembly, until the threaded holes in the assembly lineup with the holes on top of side panels **(24)**. Secure the assembly using the Hex screws **(B)**. (See figures 8-9-10)

Figure 08

Figure 09

Figure 10



Secure the extraction assembly **(26)** using six Hex head screws **(B)**

Locate the upper inner panel **(23)**, position the panel on top of the lower panel **(25)**, offer up the threaded holes with the remaining holes in the side panels **(24)** and secure the panel with six Hex head screws **(B)**. (See figures 11-12)

Figure 11

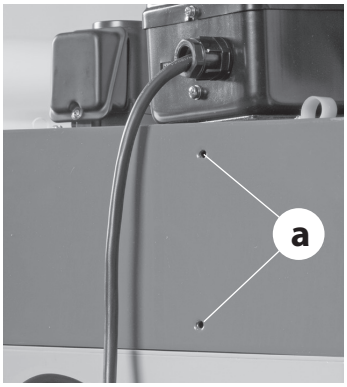
Figure 12

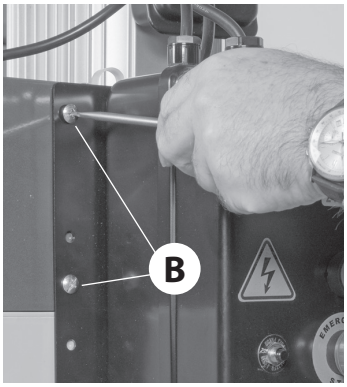
Use the supplied Hex key to tighten all the Hex screws **(B)**

NVR Control Switch Assembly

Remove the control switch assembly from the cardboard box on top of the extractor, locate the two Phillips screws **(B)**, position the control switch mounting holes over the threaded holes **(a)** on the extraction assembly **(26)** and secure using the Phillips screws **(B)**. (See figures 13)

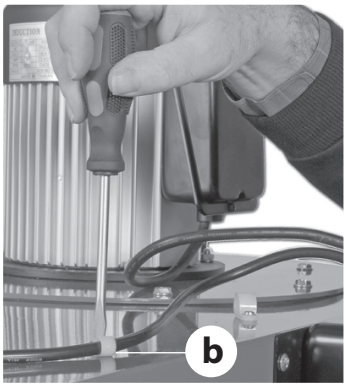
Figure 13

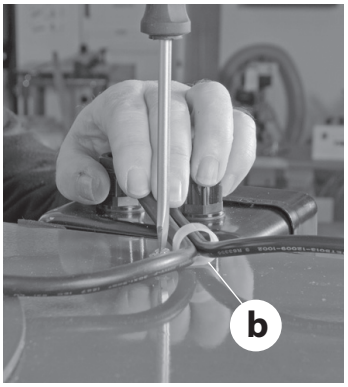




Secure the power cables using the two cable clamps **(b)** mounted on top of the extractor **(26)**. (See figure 14)

Figure 14



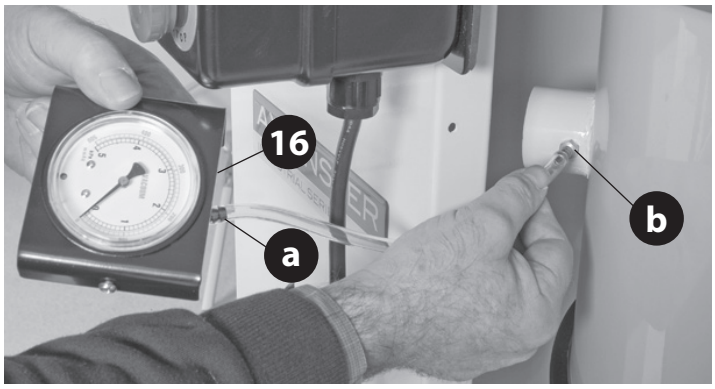


Manometer Assembly

Locate the manometer and hose **(16)**, connect the hose to the brass air inlet fitting to the rear of the manometer and inset the other end over the outlet on the extraction drum **(26)**. (See figure 15)

NOTE: Make sure the hose is securely on to prevent any air leakage and giving a false reading on the manometer.

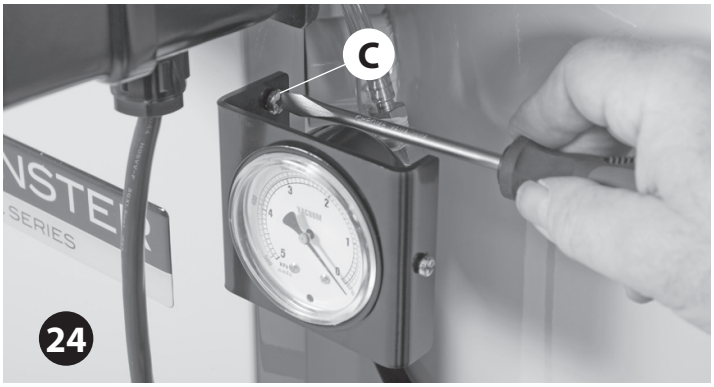
Figure 15



Fit the hose to the brass air inlet fitting **(a)** and place the other end over the extraction drum air outlet **(b)**

Position the manometer mounting holes over the two pre-drilled holes on the side panel **(24)** and secure using the two Phillips screws **(C)**. (See figure 16)

Figure 16

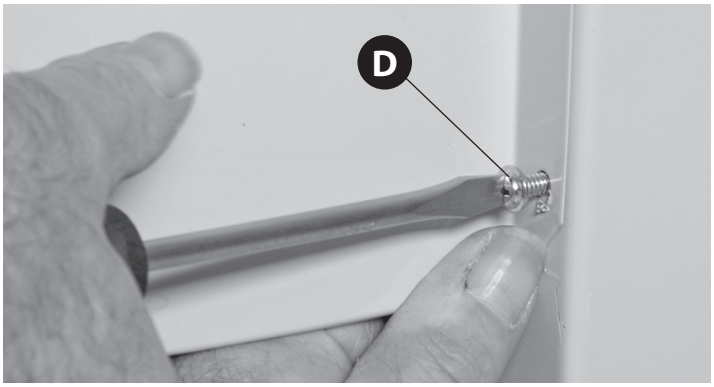


Rear Filter Cover Assembly

Figure 17

Locate the rear filter cover **(20)** and the small Phillips screws **(D)**. Place the filter cover **(20)** over the rear filter and lineup the holes in the filter cover with the pre-drilled holes to the ends of the side panels **(24)**, secure in place using the Phillips screw **(D)**. (See figures 17-18)

Figure 18



Bin Assembly

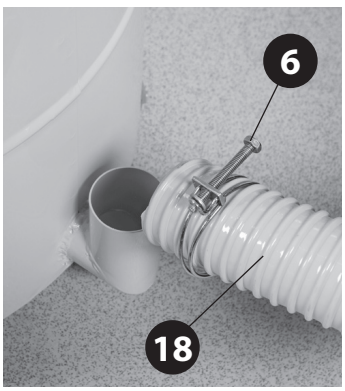
Locate the bin **(22)**, bin castor wheels **(14)**, large flexible hose **(18)** and one of the two small hose clips **(6)**. Turn the bin over, screw the bin castor wheels **(14)** into the threaded holes in the bin and using the supplied spanner **(2)** tighten each castor wheel. (See figures 19)

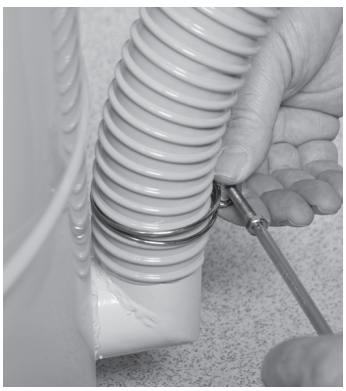
NOTE: Do Not Overtighten

Figure 19

Slot the small hose clip **(6)** over the end of flexible hose **(18)** and inset the hose over the bin inlet. Using a Phillips screwdriver tighten the hose clip **(6)**, to secure the hose in position. (See figure 20)

Figure 20





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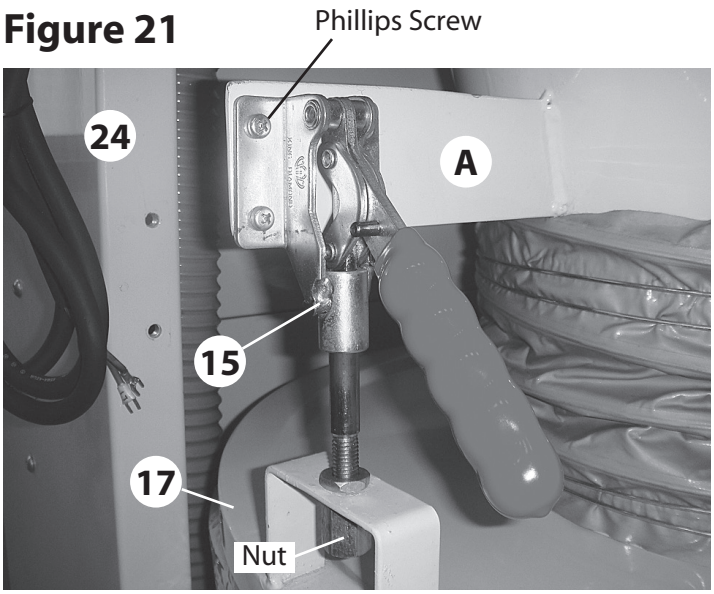
Bin Lever Clamps Assembly

Lineup the four pre-drilled holes on lever clamp **(15)** with the pre-drilled holes in the supporting bracket **(A)**, see figure 21, secure using the four Phillips screws.

Figure 21



Remove the nuts from the ends of lever clamp threads **(15)**, manoeuvre the bin lid assembly **(17)**, and lineup the holes in the bin lid brackets with the lever clamp threads. Slot the threads though the holes and secure using the nuts you removed earlier. (see figure 21)

(DO NOT OVERTIGHTEN)

Flexible Connector Assembly

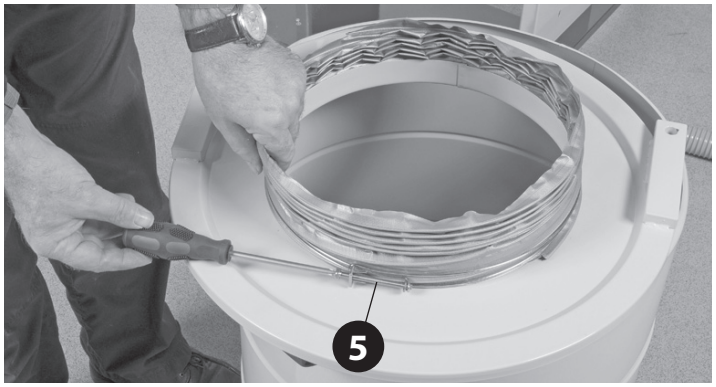
Locate the flexible connector **(10)**, bin cover **(17)** and the two large steel clips **(5)**. Carefully ease the flexible connector **(10)** over the lip of the bin cover **(17)** using a screwdriver until it is flush against the bin cover. (See figure 22)

WARNING!! BE VERY CAREFUL WHEN EASING THE FLEXIBLE CONNECTOR ON AS NOT TO TEAR THE SEAL

Figure 22

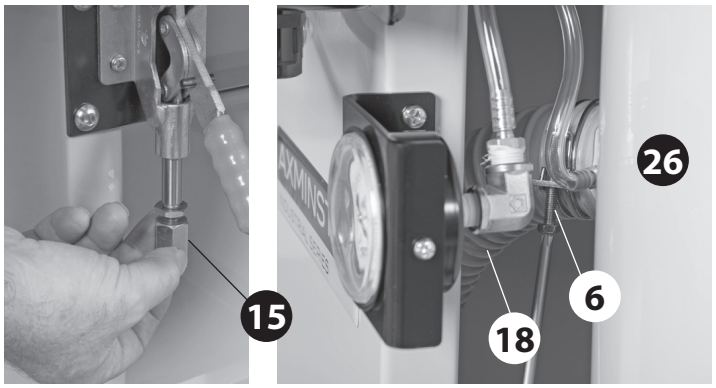
Place one of the steel clips **(5)** over the flexible connector **(10)**, until its flush against the bin cover **(17)** and using a screwdriver tighten the clip. (See figure 23)

Figure 23



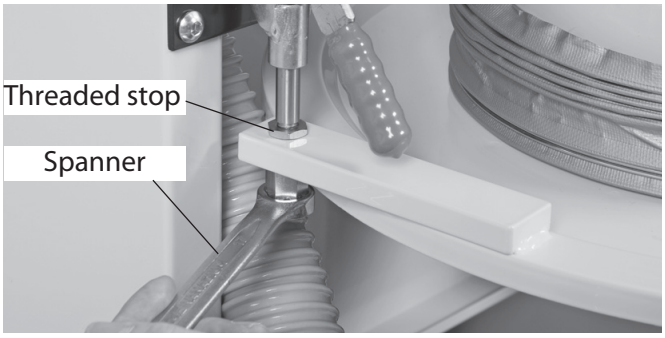
Remove the nuts from the ends of lever clamp threads **(15)**, manoeuvre the bin assembly **(22)** near the extractor, insert the remaining hose clip **(6)** over the hose **(18)**, place the hose over the dust extraction outlet **(26)** and tighten the hose clip. (See figure 24)

Figure 24



Inset the pre-drilled holes in the bin cover **(17)** over the lever clamp threads, until the bin cover is up against the threaded stop. Replace the nuts and tighten with a spanner. (See figure 25)

Figure 25



Wrap the sealing tape **(8)** around the end of the drum, (see figure 25), pull the flexible connector **(10)** up and over the dust extraction drum, remove the screw from the remaining large steel clip **(5)**, wrap the clip around the extraction drum and onto the flexible connector. Replace the screw and tighten. (See figures 26-27)

Figure 26

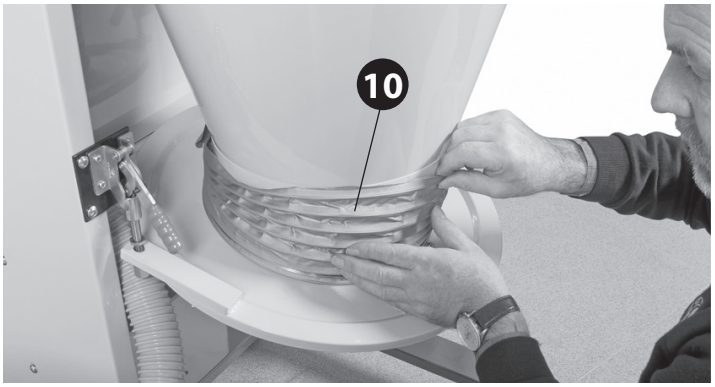
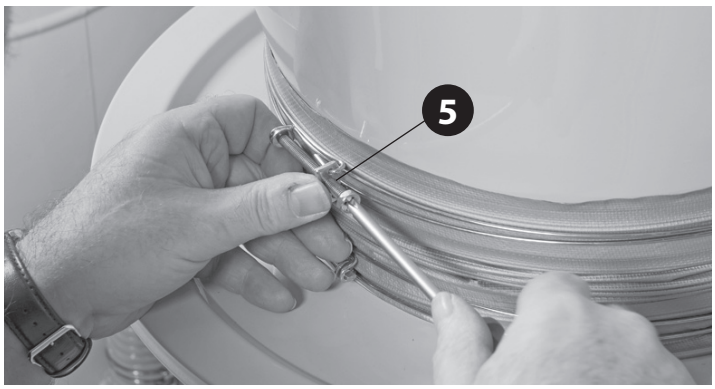


Figure 27



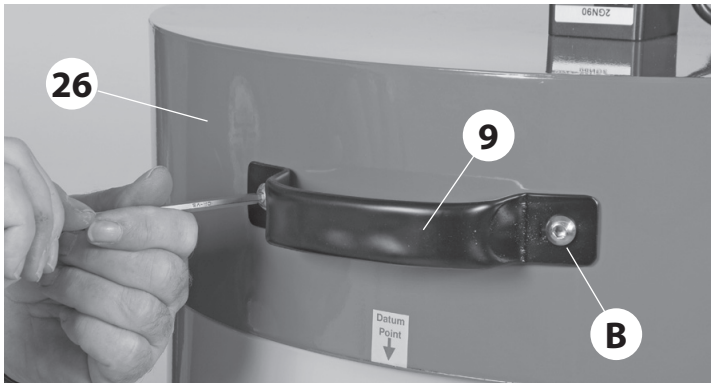
Open the bin bag **(7)** and place in the bin **(22)**, (see figure 28). Lift up the bin levers **(15)**, wheel the bin between the legs of the extractor base **(21)** and lower the bin cover **(17)** on top of the bin by pressing down on the levers **(15)**. (See figure 28)

Figure 28

Extractor Handle Assembly

Locate the extractor handle **(9)** , position the handle so the pre-drilled holes lineup with threaded holes in the extractor assembly **(26)** and secure using two Hex screws **(B)**. (See figure 29)

Figure 29



Filter Bag Assembly

Locate the filter sealing tape **(11)**, dust bag securing clip **(12)** and dust bag **(13)**. Wrap the filter sealing tape **(11)** around the end of the filter, (see figure 30), place the dust bag **(13)** over the filter and secure in place using the dust bag securing clip **(12)**, see figures 31.

Figure 30

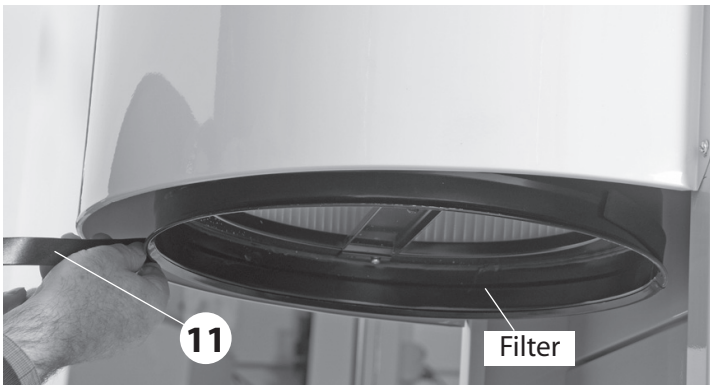
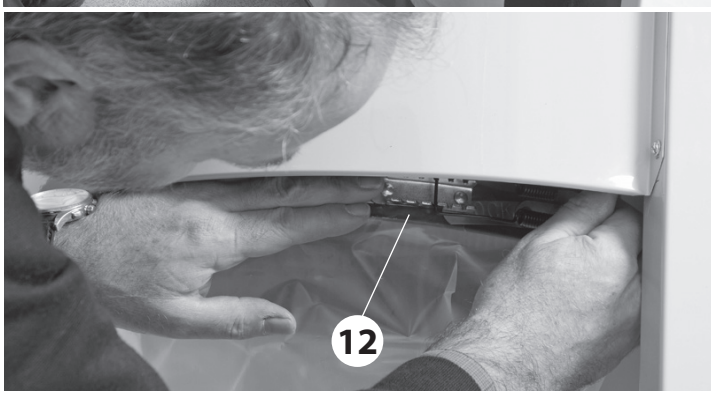


Figure 31



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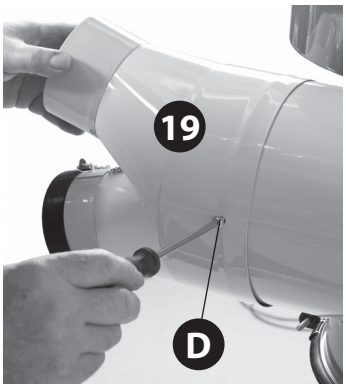
Assembly Instructions

Figure 32



Locate the dust extraction adaptor outlet **(19)** and the remaining Phillips Screw **(D)**. Slide the adaptor outlet **(19)** over the end of the drums outlet, line up the pre-drilled holes and secure using the Phillips screw **(D)**. (See figure 32)

NOTE: Go around the extractor and make sure all fixings are tight. **(DO NOT OVERTIGHTEN)**

WARNING!! MAKE SURE CHILDREN ARE KEPT AWAY FROM THE CYCLONE EXTRACTOR WHILE IN OPERATION

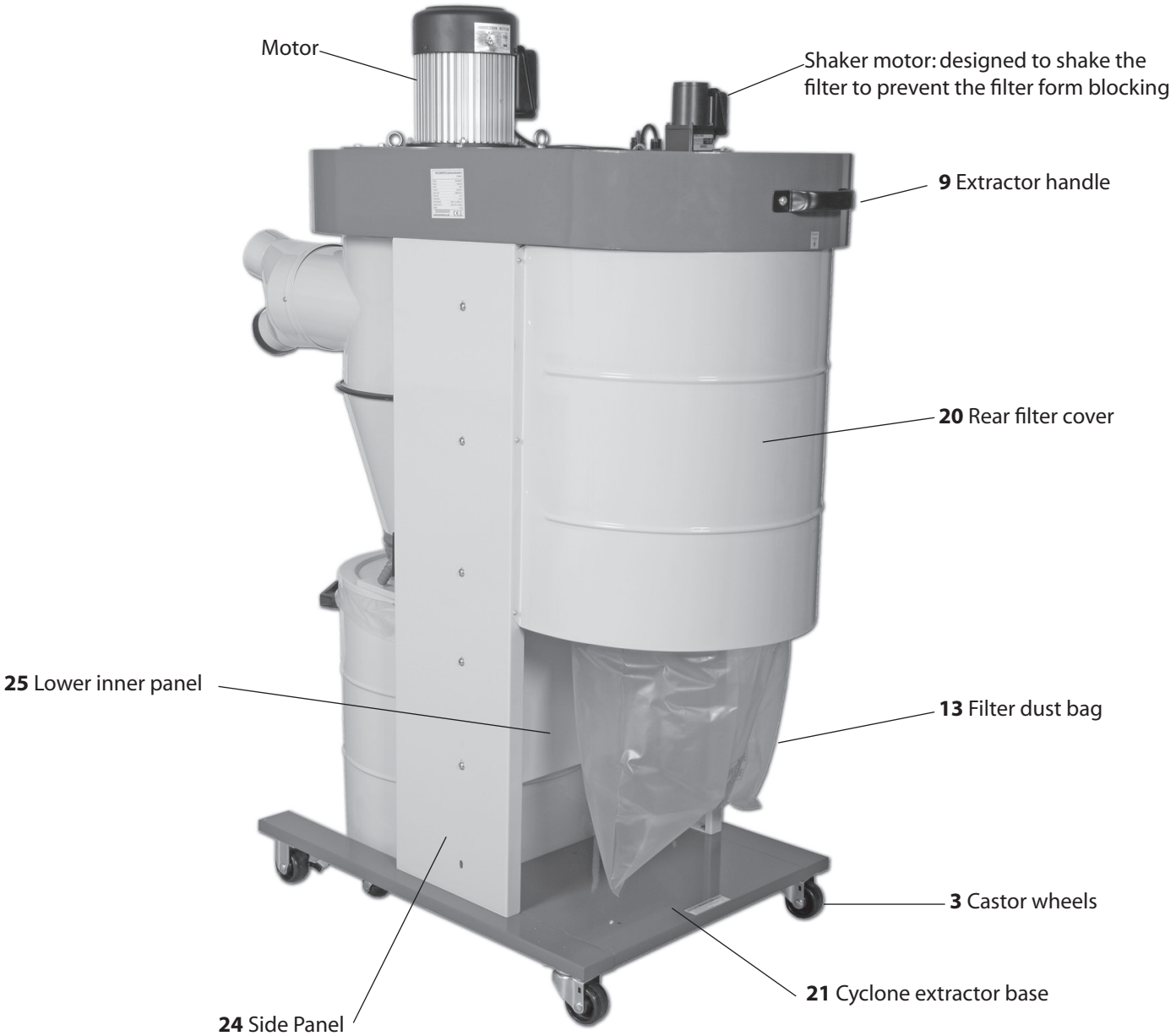
NOTE: ALWAYS TURN ON/OFF THE EXTRACTOR BY THE NVR CONTROL SWITCH NOT THE MAINS SWITCH

Connect the extraction hoses to the adaptor outlets using jubilee clips.

Plug the extractor into the mains supply, turn on the extractor by pressing the 'ON' button on the NVR switch, wait until the extractor is at full speed and check if there are any signs of vibration. If all is well, switch off extractor by pressing the 'Emergency Stop' button. If not switch off and check all fixings again.

NOTE: approximately 60 seconds after you switch off the extractor the shaker motor will start up and run, several revelations first clockwise and then anti-clockwise, switching off automatically

Parts Description and Illustration

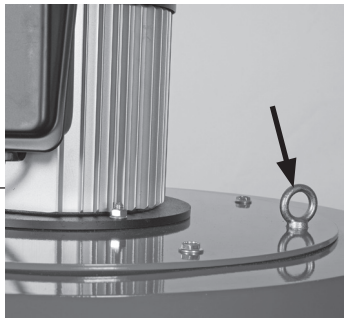

Motor
Shaker motor: designed to shake the filter to prevent the filter form blocking
9 Extractor handle
20 Rear filter cover
25 Lower inner panel
13 Filter dust bag
3 Castor wheels
21 Cyclone extractor base
24 Side Panel

NVR Control switch assembly

'ON' button

Emergency stop

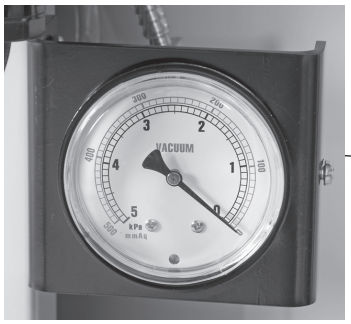
Reset button



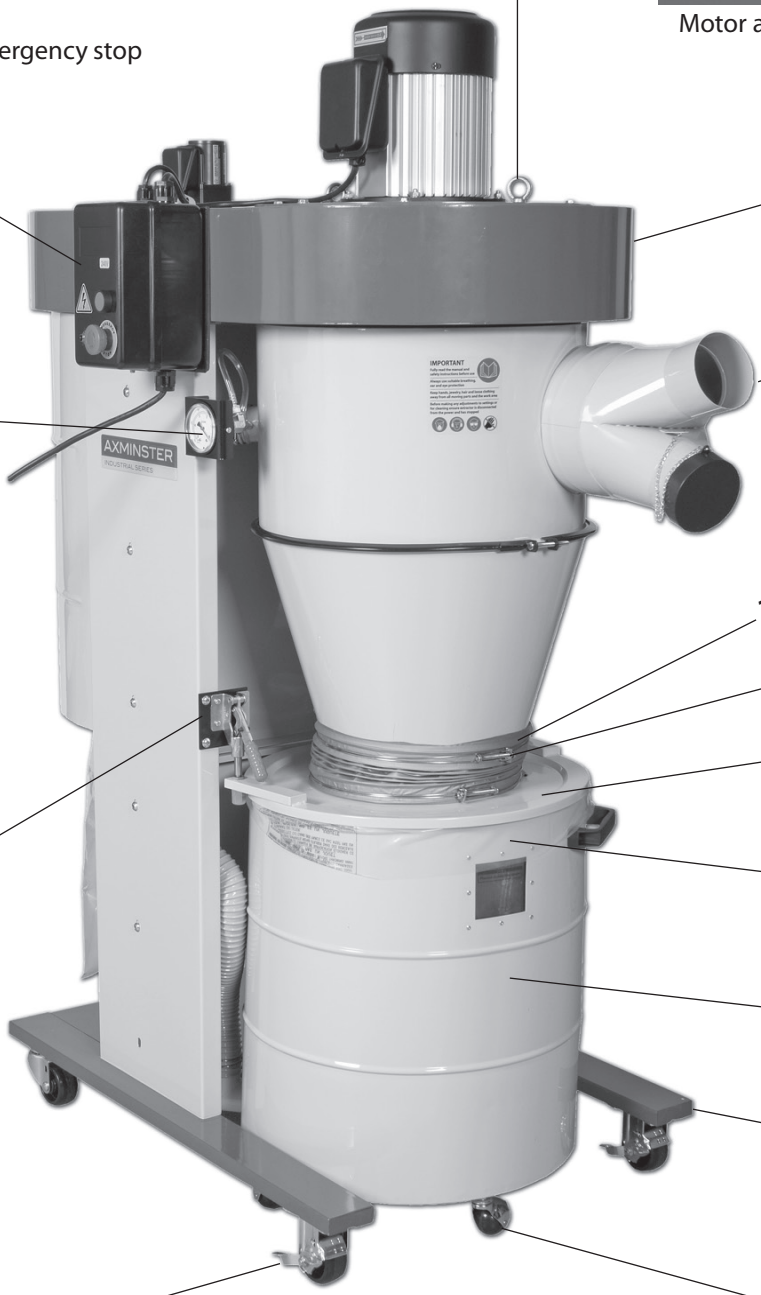
Motor assembly lifting ring

26 Motor extraction assembly

19 Dust extractor adaptor



16 Manometer



10 Flexible connector

5 Large steel clips

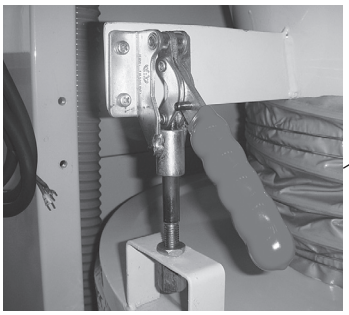
17 Bin Cover

7 Bin bag

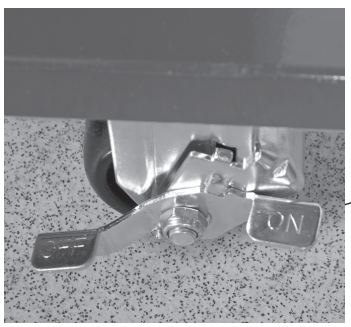
22 Bin

21 Cyclone extractor base

14 Bin castor wheels



15 Bin lever clamp



4 Lockable fixed castor wheel

Switching ON/Off

ALWAYS TURN ON/OFF THE EXTRACTOR BY THE NVR CONTROL SWITCH NOT THE MAINS SWITCH

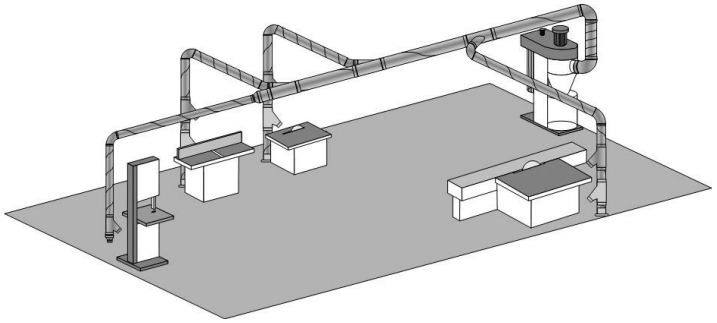
This is to allow the shaker motor to perform the self cleaning operation. If the cyclone extractor is turned off at the mains switch, the shaker motor will not cut in. If this is constantly repeated, eventually the filter will become blocked, causing reduced performance.

Manometer

The manometer is used to monitor the air flow in the ducting system. When you first use your extractor it is recommended you mark on 'manometer' the pressure the extractor it running at, to do this follow the instructions below.

Note: the reading can vary depending on the size of the ducting system.

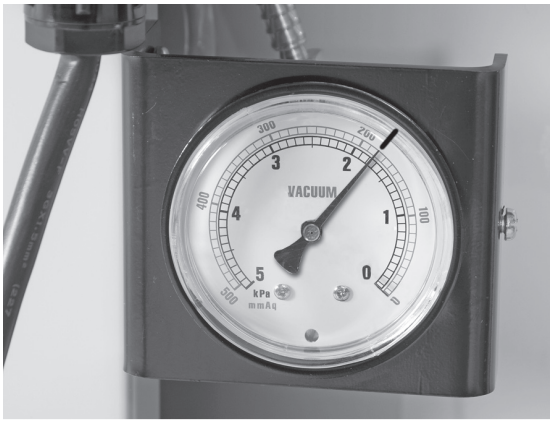
1. Connect your cyclone extractor to the ducting system.

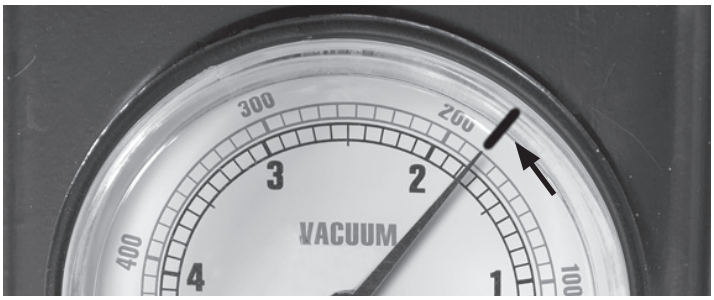


2. Start up the extractor by pressing the 'green' button on the NVR switch assembly and check the reading on the manometer.

3. Using a marker or sticky label mark the reading on the manometer, (see figure 34). This is to confirm that every time you switch on you know what the read will be.

Figure 34





If you find the reading has increased there could be a blockage in the ducting system or extractor unit, check the following:

WARNING!! BEFORE CARRYING OUT ANY MAINTENANCE DISCONNECT THE CYCLONE EXTRACTOR FROM THE MAINS SUPPLY

• Check the rear filter for signs of build of sawdust and clean with a vacuum cleaner

• Check the shaker motor is working properly

• Check the hoses for blockages

• Check the bin bag and empty if full

If the reading has decreased, check the following:

•Check the hoses are secure, 'NOT LOOSE' which will lead to air leakages

• Check hoses for splits and cracks

• Check "Blastgates" that are not in use are shut

Extraction Accessories

For all of our accessories please see our catalogue or contact us on:

Freephone: 03332 406406

WARNING!! BEFORE CARRYING OUT ANY MAINTENANCE DISCONNECT THE CYCLONE EXTRACTOR FROM THE MAINS SUPPLY

WARNING!! KEEP CHILDREN AWAY FROM WORK AREA

WARNING!! ALWAYS WEAR A DUST MASK

WARNING!! ALWAYS WEAR EYE PROTECTION

After a period of time dust, sawdust and shavings can build-up causing blockages and reduced suction performance. Follow the maintenance instructions below to keep your extractor working a peak performance.

Basic Maintenance

Daily

• Empty the collection bag before it overflows, wear a dust mask whilst removing and emptying the bag.

Weekly

• Check the inlet and outlet ducts and remove any accumulated sawdust.

•Check the inlet hoses for splits and cracks, repair as necessary.

• Check the dust collection bag for wear and tear, especially around the neck at the jubilee clip. If wear or fraying is occurring, replace the bag.

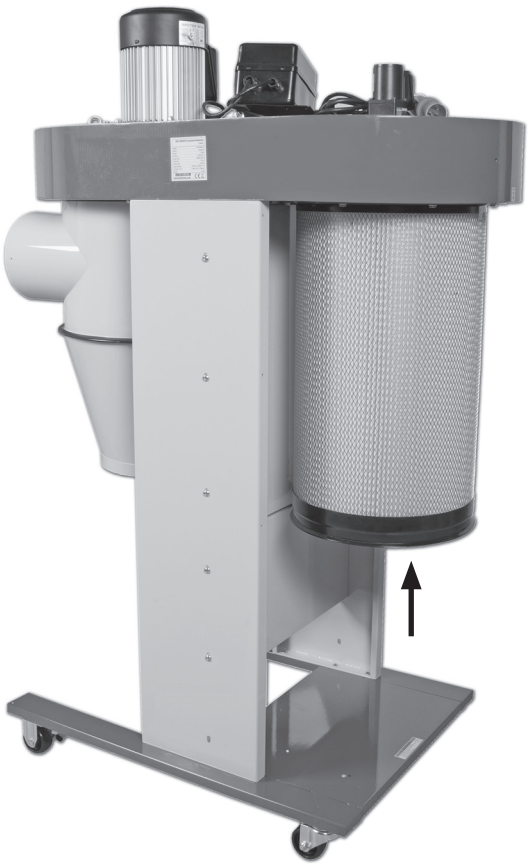
• Check the motor for dust, sawdust, shavings etc, build up. If this has occurred, clean with a vacuum cleaner.

• Start up the extractor, wait a few seconds and switch off, approximately 60 seconds later the shaker motor will start up. There will be a distinct clicking noise as the shaker motor paddles go round, running several revelations first clockwise and then anti-clockwise, switching off automatically. If no sound is heard remove the filter bag and look up inside the filter for any signs that the paddles are being obstructed. If there is no obstruction contact Axminster Tool Centre's Technical Enquiries on 03332 406406 or email technical@axminster.co.uk for technical assistance.

Monthly

• Remove the rear filter cover (20) and vacuum inside the filter.

Undo the six Phillips screws **(D)** and remove the rear filter cover **(20)**, place components carefully aside.



Use a vacuum cleaner to clean inside the rear filter

Weekly LEV System Maintenance Log

Week	Date	Checked by	Check all ducting for physical damage	Check inlets, clear any obstructions if found	Check operation of all blastgate controls	Check Filter(s) for damage and condition	Check filter shakers (if fitted) and clean filters	Check waste collector(s) for damage and condition	Empty waste collectors if necessary	Comments
1										
2										
3										
4										
5										
6										
7										
8										
9										
10										
11										
12										REMOVE AND CLEAN FILTERS
13										
14										
15										
16										
17										
18										
19										
20										
21										
22										
23										
24										REMOVE AND CLEAN FILTERS
25										
26										
27										
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29										
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31										
32										
33										
34										

Weekly LEV System Maintenance Log

Week	Date	Checked by	Check all ducting for physical damage	Check inlets, clear any obstructions if found	Check operation of all blastgate controls	Check Filter(s) for damage and condition	Check filter shakers (if fitted) and clean filters	Check waste collector(s) for damage and condition	Empty waste collectors if necessary	Comments
35										
36										REMOVE AND CLEAN FILTERS
37										
38										
39										
40										
41										
42										
43										
44										
45										
46										
47										
48										
49										REMOVE AND CLEAN FILTERS
50										
51										
52	Nearly 14 months it is now a legal requirement to have your system tested and certified									
53										
54										
55										
56										
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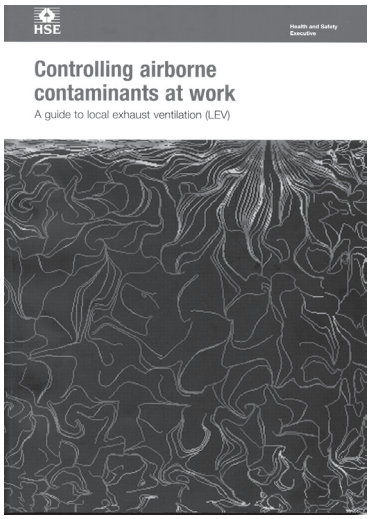
LEV Testing

Why should I bother with LEV?

The law says you must control the risks from these substances (the Control of Substances Hazardous to Health (COSHH) Regulations). Installing LEV may help you to do this.

For more information about other ways of eliminating or reducing airborne contamination at work look at HSE's COSHH website, **hse.gov.uk/coshh**.

Health and Safety Executive



A guide to local exhaust ventilation (LEV)

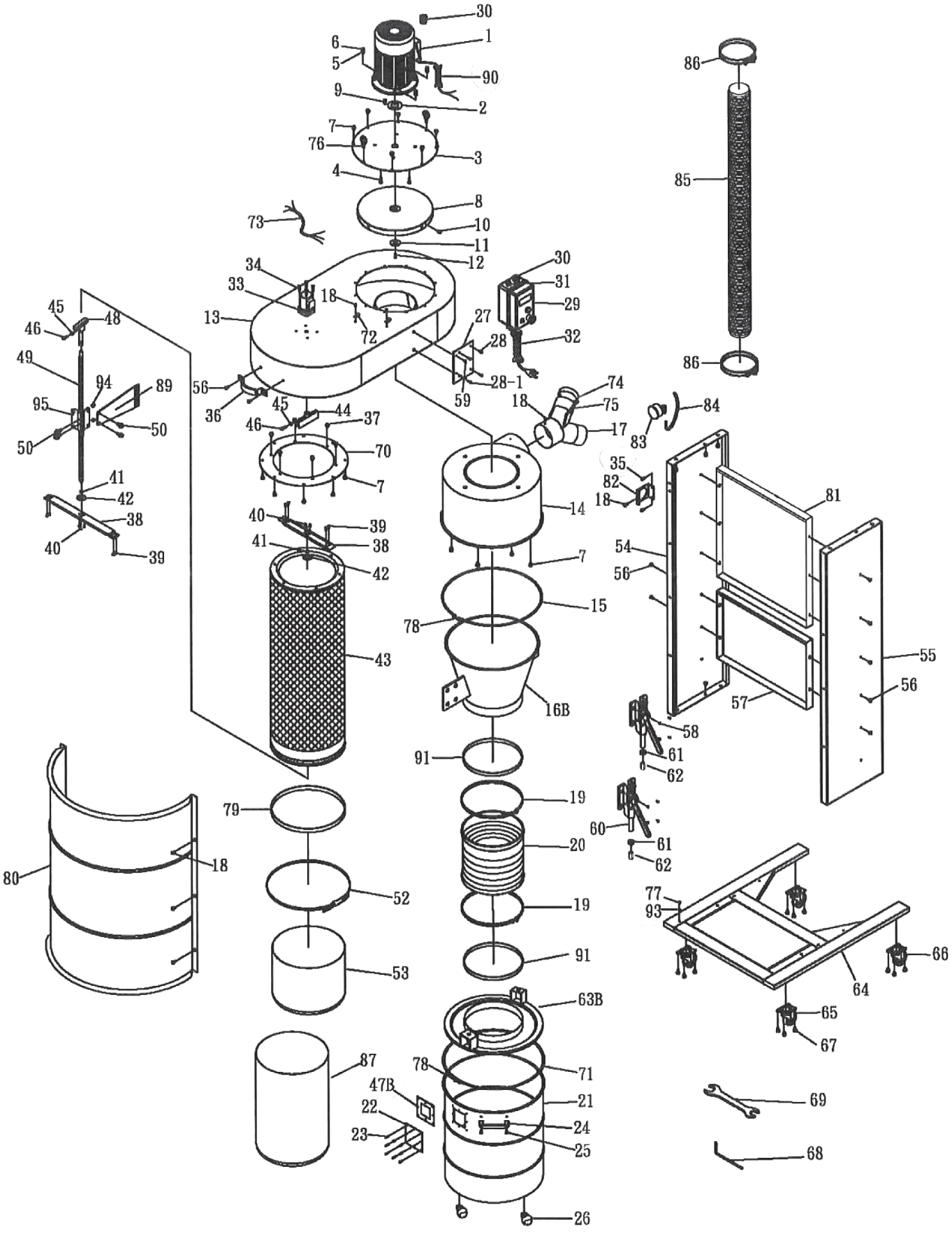
Ref Code: HSG258

The book above provides guidance on the supply of local exhaust ventilation (LEV) equipment. It describes the principles and good practice of deciding on, designing, commissioning and testing cost-effective LEV.

The guidance is written for the suppliers of LEV goods and
services, but will also be helpful for employers and managers in medium-sized businesses, and trade union and employee safety representatives. All of these groups need to work together to provide, maintain and use effective LEV and to reduce exposure from inhalation of hazardous substances.

The book contains information about the roles and legal responsibilities of suppliers and of their clients as employers; competence; principles of good design practice for effective LEV hoods and their classification; ducts, air movers, air cleaners; and system documentation with checking and maintenance schedules, and the marking of defective equipment.

It also includes guidance on the specification of LEV; the supplier's quotation; commissioning; zone marking; the user manual and logbook; testing and hood labels.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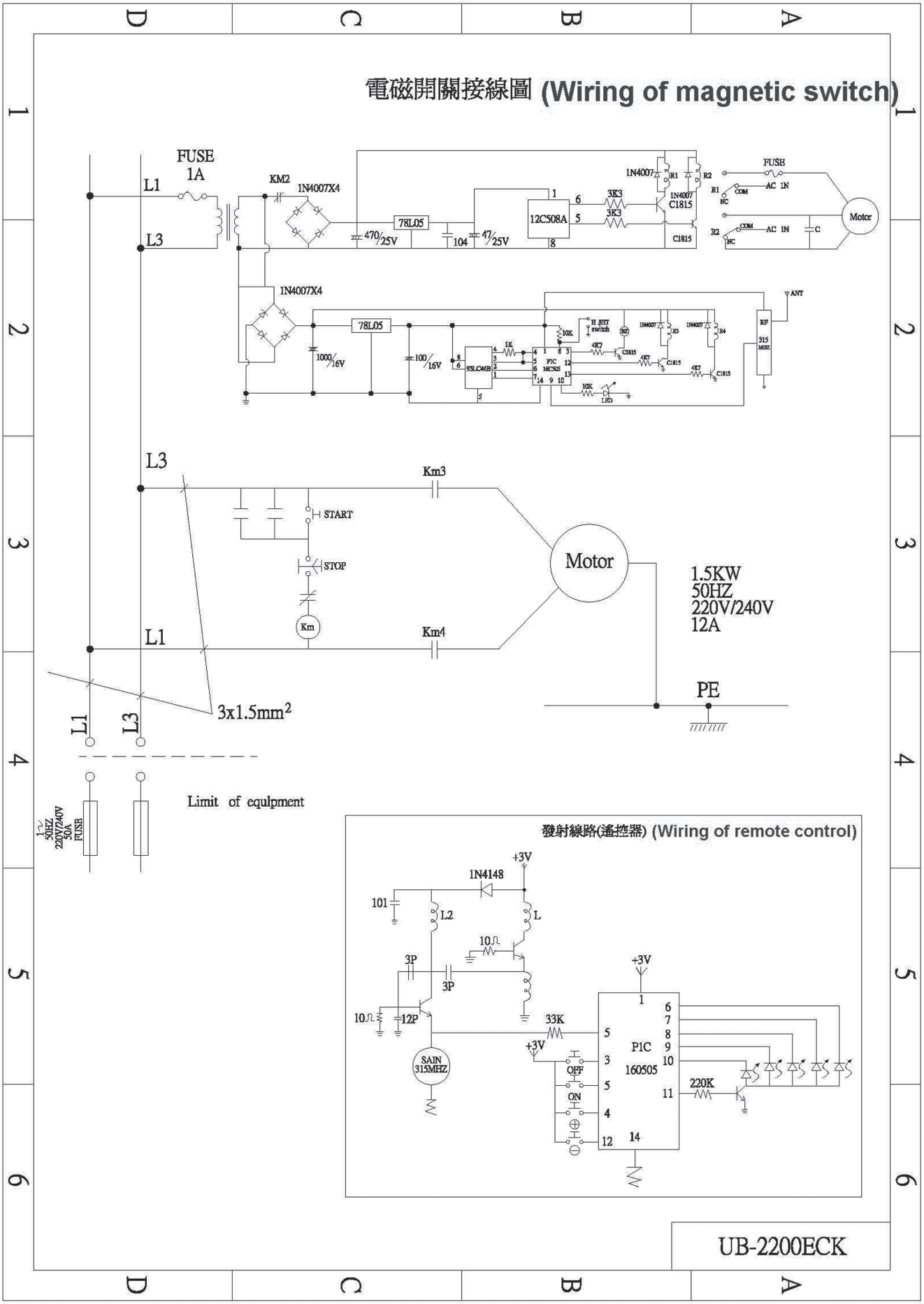
Parts List

Part No.	Description	Specification	Q'TY
1	Motor		1
2	Motor Packing		1
3	Motor Plate		1
4	Hex Head Screw	5/16″xl″	4
5	Lock Washer	5/16″	4
6	Nut	5/16″	4
7	Flange Bolt	5/16″x3/4″	18
8	Impeller	14.5″	1
9	Key	7x7x25	1
10	Set Screw	3/8″x3/4″	1
11	Washer		1
12	Cap Screw	M6x20	1
13	Main Housing		1
14	Housing		1
15	Clamp		1
16B	Reducing Housing		1
17	Inlet Adapter	8″x4″	1
18	Philips Head Screw	3/16″x3/8″	10
19	Hose Clamp		2
20	Hose	12″	1
21	Collecting Drum		1
22	PC Board		1
23	Rivet	4-2	8
24	Drum Handle		1
25	Flat Head Screw	l/4″xl/2″	2
26	Drum Wheel	2″	4
27	Switch Plate		1
28	Philips Flead Screw	3/16″x3/8″	2
28-1	Philips Head Screw	3/16″x3/8″	2
29	Magnetic Switch		1
30	Bushing	M20	3
31	Bushing	M16-10B	1
32	Power Cord		1
33	Reducer		1
34	Philips Head Screw	M4x60	4
35	Flange Bolt	lATxl/2″	2
36	Handle		1
37	Flange Bolt	5/16″xl/2″	6
38	Lower Fixing Plate		2
39	Philips Head Screw	M5xl0	8
40	Button Head Screw	M5x6	6

41	Ball Bearing	12x14x6	2
42	Ball Bearing Fixing Plate		2
43	Canister Filter	370x600	1
44	Rod Kit		1
45	Nut	M5	2
46	Cap Screw	M5xl2	2
47B	Packing		1
48	Rod		1
49	Main Spindle		1
50	Fange Bolts	M5x12	4
52	Clamp		1
53	PE Bag for Canister		1
54	Left Stand Board		1
55	Right Stand Board		1
56	Button Head Hex Screw	5/16″x l/2″	24
57	Fixing Board		1
58	Philips Head Screw	M5x8	8
59	Flat Head Screw	1/4″x l/2″	2
60	Quick Handle		2
61	Nut	3/8″	2
62	Long Nut	3/8″	2
63 B	Drum Lid		1
64	Base		1
65	Rotating Base Wheel	3″	2
66	Fixing Base Wheel	3″	2
61	Flange Bolt	5/16″x l/2″	16
68	Allen Wrench	5mm	1
69	Open Wrench	10x12	1
70	Canister Fixing Plate		1
71	Clamp		1
72	Wire Clip	UC4	2
73	Connecting Wire	18AGx3Cx77CM	1
74	Cap	4″	1
75	Chain		1
76	Hanger	5/16″	1
77	Ground Screw	3/16″x3/8″	1
78	Flange Bolt	l/4Mx2-l/2M	1
79	Sponge Form	3x20x1200	1
80	Guard		1
81	Side Upper Support Plate		1
82	Negative Pressure Gauge Flange		1
83	Negative Pressure Gauge		1

Parts List

84	Plastic pipe		1
85	Hose		1
86	Hose Clamp		1
87	PE Bag for Drum Use		1
89	Flapper		1
90	Motor Cord		1
91	Foam	10mx30x970	2
93	Tooth Washer	3/16"	1
94	Nut	M5	2
95	Plate Fixing Block		1


電磁開關接線圖 (Wiring of magnetic switch)
FUSE
1A
L1
L3
KM2
1N4007X4
78L05
470/25V
104
47/25V
12C508A
3K3
3K3
1N4007
C1815
FUSE
AC 1N
Motor
1000/16V
100/16V
93LC46B
P1C
16C505
10K
4K7
ANT
RF
315
MHz
L3
Km3
START
STOP
Km
Km4
L1
Motor
1.5KW
50HZ
220V/240V
12A
PE
3x1.5mm2
Limit of equipment
50HZ
220V/240V
50A
FUSE
發射線路(遙控器) (Wiring of remote control)
+3V
1N4148
101
L2
L
10Ω
3P
12P
SAIN
315MHZ
33K
P1C
160505
OFF
ON
220K
UB-2200ECK

Notes

The **Axminster guarantee** is available on Hobby, Trade, Industrial, Engineer, Air Tools & CNC Technology Series machines

It's probably the most comprehensive FREE guarantee ever- buy with confidence from Axminster!
So sure are we of the quality, we cover all parts and labour free of charge for three years!

- **Look for the icon and put your trust in Axminster**
- **No registration necessary - just keep your proof of purchase**
- **Optional Service Plan for Industrial Series machinery**

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Great value & easy-to-use, perfect for use at home

AXMINSTER Trade SERIES

Solid, reliable machines designed for daily use

AXMINSTER INDUSTRIAL SERIES

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AXMINSTER Engineer SERIES

Quality, precision machines for the workshop or education

AXMINSTER Model Engineer SERIES

Small machines for the home engineer

AXMINSTER TOOLS air

Compressors and tools for home or workshop use; durable and great value

AXMINSTER CNC Technology

Precision CNC machines for industry and education

Free Three Year Guarantee on Axminster Hobby, Trade and Industrial Series woodworking and engineering machines, Axminster Air compressors and Air Tools, and bench top grinders - no registration necessary just proof of purchase.

We will repair or replace at our discretion and will collect only from a UK mainland address, irrespective of the original delivery address.

The Guarantee assumes that you have bought the correct machine for the required operation, in accordance with our guidelines; have operated and maintained it in accordance with the instruction manual; and that all cutting machines will be used with a blade which is sharp and serviceable at all times. It does not cover consumable items purchased with the original product, including original blades or abrasives.

Normal wear and tear; misuse, abuse and neglect are excluded and the machine should not have been modified in any way. Please do not attempt to service the product without first contacting us; we are happy to guide you but failure to do so may invalidate the guarantee.

The Guarantee is transferable from owner to owner in the first three years but you must have original proof of purchase. Should we need to replace a machine in the first three years the guarantee will still continue to be effective from the original purchase date.

Full Terms and Conditions can be found at **axminster.co.uk/terms**

This guarantee does not affect your statutory rights.

For more information visit **axminster.co.uk/3years**

Please dispose of packaging for the product in a responsible manner. It is suitable for recycling. Help to protect the environment, take the packaging to the local recycling centre and place into the appropriate recycling bin.

Only for EU countries

Do not dispose of electric tools together with household waste material. In observance of European Directive 2002/96/EC on waste electrical and electronic equipment and itsimplementation in accordance with national law, electric tools that have reached the end of their life must be collected separately and returned to an environmentally compatible recycling facility.

Axminster Tools & Machinery Ltd
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axminster.co.uk